

02/22/05



Puget Sound Clean Air Agency

Compliance Status Report

110 Union Street, Suite 500
Seattle, WA 98101-2038
Ph: 206.343.8800 / 1.800.552.3565
Fax: 206.343.7522
www.pscleanair.org

Inspection Date: ~~12/2~~ 2/22/05

Time: 10:35 AM

Case/Registration No. ✓ R# 11872	Name Glacier NW Inc W. Marginal			Responsible Person, Title Ned Pettit EH#S Mgr.
Site Address 5900 W. Marginal Way SW	City Seattle	Zip 98106	County King	
Mailing Address PO Box 1730	City, State Seattle, WA	Zip 98111	Phone (206) 768-7612	

- ☒ I observed no violations of our agency's regulations during my inspection in the areas I inspected.
- ☐ I could not make a compliance determination because:
- ☐ I need to consult with others. I will share my conclusions with you either in person, over the phone, or in writing by _____.
 - ☐ I need more information. Please submit the following information by _____.

We observed the completion of the installation of the two flyash baghouses permitted under NOC 9079. Please remember to establish the acceptable pressure drop range of the gauges on or before 3/14/05. A barge was unloading cement into Glacier's silos with no visible emissions. All of the Baggouse O&M logs were complete and up to date.

Issued By:

[Signature]
Phil S. Christensen

Received By:

[Signature]
Edward M. [unclear]

Date/Time: 2/22/05 10:45 AM

Routing Record

To: Initials/Date:

1. Supervisor	MAM 2/28/05
2. Linda/Valerie	VJL 4-105
3. Other	/
4. Central Files	/
5.	/

PUGET SOUND CLEAN AIR AGENCY

110 Union Street, Suite 500
Seattle, WA 98101-2038

ROUTINE
INSPECTION REPORT

Reg #: 11872

AIRS#:

Personal Protective Equipment Checklist

As determined by PSCAA and Inspector
based on conditions at the Source on the
date of the current inspection:

**MUST BE COMPLETED PRIOR TO
INSPECTION**

Safety Equipment	Required	Optional
None		
HardHat	X	
Goggles		
Safety Glasses	X	
Hearing Protection		
Respirator		
Safety Shoes		
Rubber Boots		
Leather Gloves		
Chemical Gloves		
Coveralls		
Tyvek		
Safety Vest	X	
Other		

Assigned Inspector EMG Engineer FLA
Last Inspection Date 11/26/02

Facility: Glacier Northwest Inc, W Marginal

Street Address: 5900 W Marginal Wy SW

City: Seattle

Zip: 98106

Mailing Address: PO Box 1730

City: Seattle

Zip: 98111

Contact Persons: Doug Twiford
Ed Ownes
Steve Penswick
Tom Hanson

Plant Supt (206) 764-3075
VP- Staff (206) 764-3000
Assistant Manager (206)
Environmental Manager (206) 764-3075

Persons Contacted: Ned Pettit
Steve Penswick

(206) 768-7612

North American Industry Classification System (NAICS):

423320 Brick, Stone, and Related Construction Material Merchant Wholesalers

Last Comment: 1991 Form A Rec'd

1992 Form A Rec'd

Type of Inspection: ☐ Offsite Report (Level 1) ☒ Onsite Routine (Level 2, 3, 4)

Last Inspection: 11/26/2002 EMG Onsite Routine Update Equip List. Change NAICS code.

Date of Inspection: 2/22/05 8:55 Am PSCAA Reps: EMG, FLA

Inspection Summary: Routine compliance inspection. Source stores & distributes
Cement & Flyash. Two new Flyash Bldgs on-line since 2/14/05
AP ranges not set yet. Santos barge from Canada unloading 4500 tons
Cement

Recommendation: File

wd. 3/2
after 9:00am.

PUGET SOUND CLEAN AIR AGENCY

110 Union Street, Suite 500

Seattle, WA 98101-2038

Facility: **Glacier Northwest Inc, W Marginal**

Reg #: **11872**

Attachments: _____

Notice of Violation #: _____

Film#: _____

Report By:/Date _____

Inspection Objectives:

See Attached inspection report

Exterior Observations (Before Inspection):

No visible emissions or odors observed

Inspections (Last 5)

Type

Comment

NOV

11/26/2002 EMG	Onsite Routine	Update Equip List. Change NAICS code.	
11/6/2002 EMG	Onsite Routine	CSR-no violations. Update equip list.	
10/17/2002 EMG	Onsite Routine	Complaint response.	
11/15/1999 MM	Onsite Routine	CSR 5.05(e)[1]. F/U to CSR. Update File. Inspect as needed.	
5/21/1996 MM	Onsite Routine	CSR Re No Deficiencies. Update Equip List.	

Notices of Construction Installation Pending:

Approved

Installed

#1909 Clinker Milling 5/24/1979

#7938 Soil vapor extraction system 12/3/1999

In-situ Ozone Injection and Soil Vapor Extraction System including a Rotron EN 454 Blower.

#9079 Loading/unloading equipment 12/16/2004

Two New Filter Technology Baghouses Models BV-730 and BVHL-250 exhausting 3,500 cfm and 1,000 cfm respectively to control existing loading/unloading equipment.

Notices of Construction/Notifications:

Approved

Inspected

Installed

#1909 Clinker Milling 5/24/1979

#2169 Cement Unload W 5-B/H,nc1909 10/2/1980

9/1/1984

PUGET SOUND CLEAN AIR AGENCY

110 Union Street, Suite 500
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Facility: Glacier Northwest Inc, W Marginal

Reg #: 11872

Notices of Construction/Notifications:

	<u>Approved</u>	<u>Inspected</u>	<u>Installed</u>
#3518 Cement Unloading-Ship To Termi	6/4/1990	6/28/1990	5/1/1990
#7938 Soil vapor extraction system	12/3/1999		
Perform source test			
#8124 Portable Concrete Batch Plant	3/22/2000		6/1/2000
Emission Limits			
#9079 Loading/unloading equipment	12/16/2004		

Notices of Construction/Notifications Special Conditions:

#3518 Cement Unloading-Ship To Termi

One Dockside DS-G400E 400MTPH Ship-unloader with four transfer vessels for cement and a Cyclonaire Filter at 5505 cfm.

#7938 Soil vapor extraction system

3. Pentachlorophenol and chlorinated organic compound emissions shall be limited to less than 25 pounds during any consecutive 12-month period. To demonstrate compliance with this limit, IT Corporation shall perform a source test within 7 days of start-up of the system. The test shall characterize pentachlorophenol and chlorinated organic emissions from the exhaust stack in accordance with EPA Methods TO-10 and TO-14. If pentachlorophenol or chlorinated organic compounds are measured at detectable levels, IT Corporation shall calculate estimated annual emissions using results of the source test (flow rate and concentration measured). A source test plan shall be submitted to the Puget Sound Clean Air Agency 20 days prior to the test, and the source test shall be conducted in accordance with Regulation I, Section 3.07. Results of this test and associated emission calculations shall be submitted to the Puget Sound Clean Air Agency within 30 days of completion of the test.

In-situ Ozone Injection and Soil Vapor Extraction System including a Rotron EN 454 Blower.

#8124 Portable Concrete Batch Plant

3. Glacier Northwest Inc shall not exceed 0.02 gr/dscf from the Fabric Filter Air Sys 121-10 baghouse as measured by a compliance source test that follows the requirements of Regulation I, Section 3.07.

4. Glacier Northwest Inc shall determine the acceptable Fabric Filter Air Sys 121-10 baghouse pressure drop while the equipment is operating normally and record the current values in the facility's Operations and Maintenance Plan.

5. Glacier Northwest Inc shall monitor the Fabric Filter Air Sys 121-10 baghouse for visible emissions, evidence of fugitive dust and fallout at least once each week while operating. If visible emissions, fugitive dust or fallout are found, Glacier Northwest Inc shall, within 24 hours, make corrections until no

Facility: Glacier Northwest Inc, W Marginal

Reg #: 11872

Notices of Construction/Notifications Special Conditions:

visible emissions, fugitive dust or fallout occur, or shut down the equipment venting to the baghouse as specified in its Operation and Maintenance Plan. Glacier Northwest Inc shall document these actions, maintain these records on-site for at least two years, and make these records available to Puget Sound Clean Air Agency personnel upon request.

One Ross Bandit Portable Concrete Batch Plant rated at 300 cy/hr including Bulk Conveyors, Storage Bin, two Storage Silos, Batching, Outside Bulk Storage and Loading/Unloading with emissions controlled by a Fabric Filter Air Sys 121-10 Baghouse rated at 8,000 cfm.

#9079 Loading/unloading equipment

3. Glacier Northwest Inc. shall allow no visible emissions or fallout from the operation of the baghouse. If emissions are observed Glacier Northwest Inc. shall immediately investigate the cause and initiate repairs or use corrective actions.

4. Glacier Northwest Inc. shall not allow baghouse emissions to exceed 0.02 gr/dscf as measured by a compliance source test following the requirements of Regulation I, Section 3.07.

5. Glacier Northwest Inc. shall, within 30 days after startup, determine the pressure drop range across the baghouse during normal operations, and record the maximum and minimum pressure drop readings in the facility's Operations and Maintenance Plan as required by Puget Sound Clean Air Regulation I, Section 5.05, and this pressure drop range shall be made visible for equipment inspections.

6. Glacier Northwest Inc. shall inspect equipment at least once per week during operations. Inspections shall include recording the presence or absence of visible emissions or fallout, and that the pressure drop across the baghouse is within the established range of Condition No. 5.

7. If visible emissions, fallout, or abnormal pressure drop are observed, Glacier Northwest Inc. shall investigate the cause and within 24 hours of the observation, initiate and record corrective actions.

8. Glacier Northwest Inc. shall maintain records for at least two years and make these records available to Puget Sound Clean Air Agency personnel upon request.

Two New Filter Technology Baghouses Models BV-730 and BVHL-250 exhausting 3,500 cfm and 1,000 cfm respectively to control existing loading/unloading equipment.

Air Contaminant Generating Equipment

Associated Control Equipment:

(1) Storage Bin/Silo System

12 Cement Silos

Rated: 48130 Ton

Year Installed: 1967

2/14/05
st. up.
Δp range
duc
3/14/05

PUGET SOUND CLEAN AIR AGENCY

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Facility: Glacier Northwest Inc, W Marginal

Reg #: 11872

Air Contaminant Generating Equipment:

Associated Control Equipment:

CE(1) Baghouse (2)

Cement Silos Automatic reverse air

Year Installed: 1967

14000 CFM

(2) Loading/Unloading

Cement Railcar Loading

Rated: 2400 Ton

Year Installed: 1967

CE(2) Baghouse

Railcar Loading Automatic reverse air

Year Installed: 1967

8000 CFM

(3) Loading/Unloading

Truck Loading - Cement W/Displacement Air Retrieval

Rated: 400 Ton

Year Installed: 1967

CE(3) Baghouse

Truck Loading Reverse air

Year Installed: 1967

13000 CFM

(4) Loading/Unloading

Ship Unloading Dockside Ds-G400e

Rated: 440 Ton/Hr

Year Installed: 1991

NC/NOT#: 3518

CE(4) Baghouse

Auto Pulse Cyclonaire Cement Dust

Year Installed: 1991

5505 CFM

NC/NOT#: 3518

(5) Bagger

Rated: 4000 Lb

CE(3) Baghouse

Truck Loading Reverse air

Year Installed: 1967

13000 CFM

(6) Soil Venting System

Ozone Injection & Soil Vapor Extraction Sys

Year Installed: 1999

NC/NOT#: 7938

Other Control Equipment:

(5) Baghouse

Model BV-730

3500 CFM

NC/NOT#: 9079

Storage dust coll.

SO unit West comp ΔP 0"

East 0" H₂O

W. Unit West < 0" H₂O

East 3" H₂O

W. Unit
or - 1 in

0.8 in ΔP 2.5"
2/2/05

PUGET SOUND CLEAN AIR AGENCY

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Facility: **Glacier Northwest Inc, W Marginal**

Reg #: **11872**

Other Control Equipment:

(6) Baghouse

Model BVHL-250

1000 CFM

NC/NOT#: 9079

2/21/09 ~
2.0" H₂O

Glacier NW Inc. West Marginal Reg. No. 11872
5900 W. Marginal Way SW
Seattle, WA. 98106

2/22/05 8:55AM

Pre-Inspection

FLA and I arrived on-site wearing our Agency ID's and contacted Ned Pettit, EH & S manager and the site superintendent, Steve Penswick. We discussed the inspection objective:

- Discuss the operations at the facility
- Inspect for compliance
- Inspect the two new fly ash baghouses and sign the notice of completion for NOC 9079
- Determine if dust from the facility could be causing the fallout complaints at Parks and Rec located at 4209 W. Marginal Way So. in Seattle (complaint case No. 2004501130-1)

Operations

The source stores and distributes cement and fly ash. The fly ash is a new segment of the business for them. The fly ash comes from Alberta. It is a ready mix additive. According to Mr. Penswick, it makes the concrete flow better. The cement is delivered to the facility by ship from Siam Thailand and from South Korea. Cement is also delivered by barge from Canada. The company distributes the cement by truck to ready mix plants. Some of the cement is delivered by rail car. The two new fly ash baghouses have been on-line since 2/16/05. The notice of completion for the baghouses was submitted to the Agency on 2/17/05. See attached notice of completion order of approval No. 9079.

Glacier northwest has a truck wash to keep track out off of West Marginal Way. Additionally they have a sweeper truck that is shared among the other Glacier facilities. Darryl Herman is the manager of the sweeper trucks. There is a provision in the capital budget for Glacier to purchase a sweeper truck that will be dedicated to the west marginal facility. The source receives a delivery of cement by ship every two months for a total of six shipments per year. The source receives a barge delivery every month.

Records Review

I reviewed the weekly baghouse O&M records for each baghouse. I observed that all of the logs were complete and up to date. I observed that Glacier was checking the following parameters:

Baghouse exterior, baghouse interior, condition of bags, condition of belts, condition of fans, evidence of fugitive dust or fallout, and pressure drop reading. They were also documenting the bag changes. The only dust collector that was not on a weekly



2/24/05

inspection cycle was the dock side baghouse, which is inspected monthly. The inspections in the log were 1/05/05 and 2/04/05. The most recent ship at the dock was on 1/13/05. The monthly inspection was not conducted at this time. The source is planning to modify the dock-side baghouse in the future by changing the flow rate and the types of bags. FLA advised them that the modification will require prior NOC approval from the Agency.

Facility Inspection

FLA and I inspected the facility accompanied by Mr. Penswick and Mr. Pettit. A Santos barge from Canada was preparing to start unloading cement at the dock after repairing a cable that had become damaged. Salmon Bay Barge Lines was on-site to unload the cement. We observed no visible emissions from the barge unloading process. We inspected the rail car unloading baghouse. It was off-line with no visible emissions. The source loads 4 rail cars with cement per week. No rail car loading was in progress. We inspected the silo baghouses. The south silo baghouse was on-line. The east compartment pressure drop reading was 0.1 inches of H2O. The west compartment pressure drop reading was 0 inches of H2O. The north silo baghouse was on-line. The west compartment was reading 3.0 inches of water pressure and the east compartment was reading 0. When the clean cycle occurred after approximately 10 minutes, the east compartment was also reading 3.0 inches of H2O. Both of the fly ash baghouses were off-line. We advised Mr. Pettit that the acceptable range needs to be marked on the gauges on or before 3/16/05 pursuant to the NOC 9079 condition No. 5. The entries in the O&M logs for these baghouses show a 2.5 inches of H2O pressure drop reading on the 3,500 cfm baghouse on 2/21/05 and 2.0 inches of H2O pressure drop reading on the 1,000 cfm fly ash baghouse. The truck load out baghouse was on-line with no visible emissions.

Closing Conference

After the facility inspection, we returned to the office. FLA and I issued a CSR no deficiencies. It was our opinion that the probability of Glacier NW's 5900 W. Marginal Way facility having an impact on the Parks and Recreation office located at 4209 W. Marginal Way So. in Seattle was very small. Mr. Pettit, FLA, and I re-scheduled with Jodi Sinclair to meet with her on 3/2/05 at 9:00 AM to evaluate the Seattle Parks and Recreation particulate fallout complaint.



2/24/05